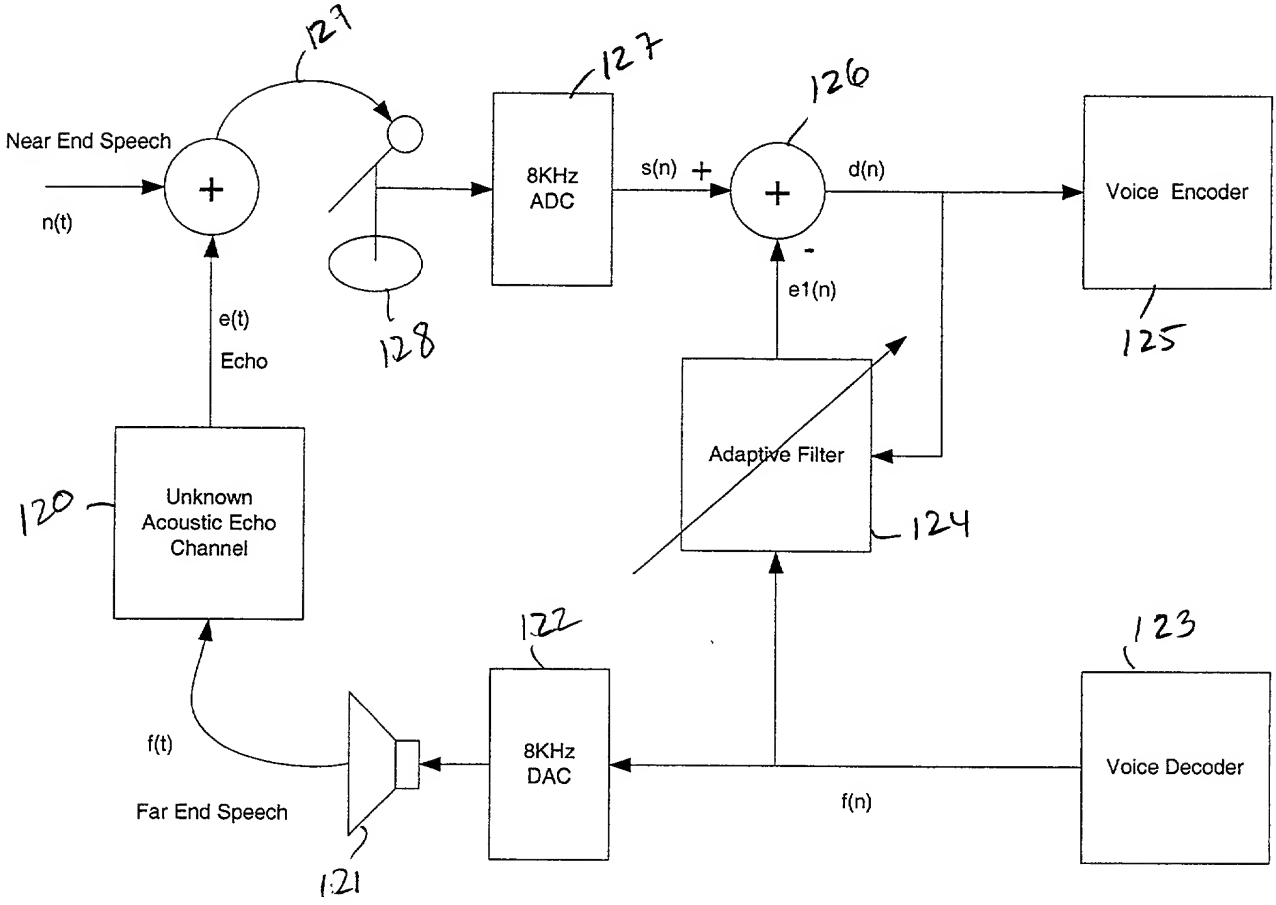
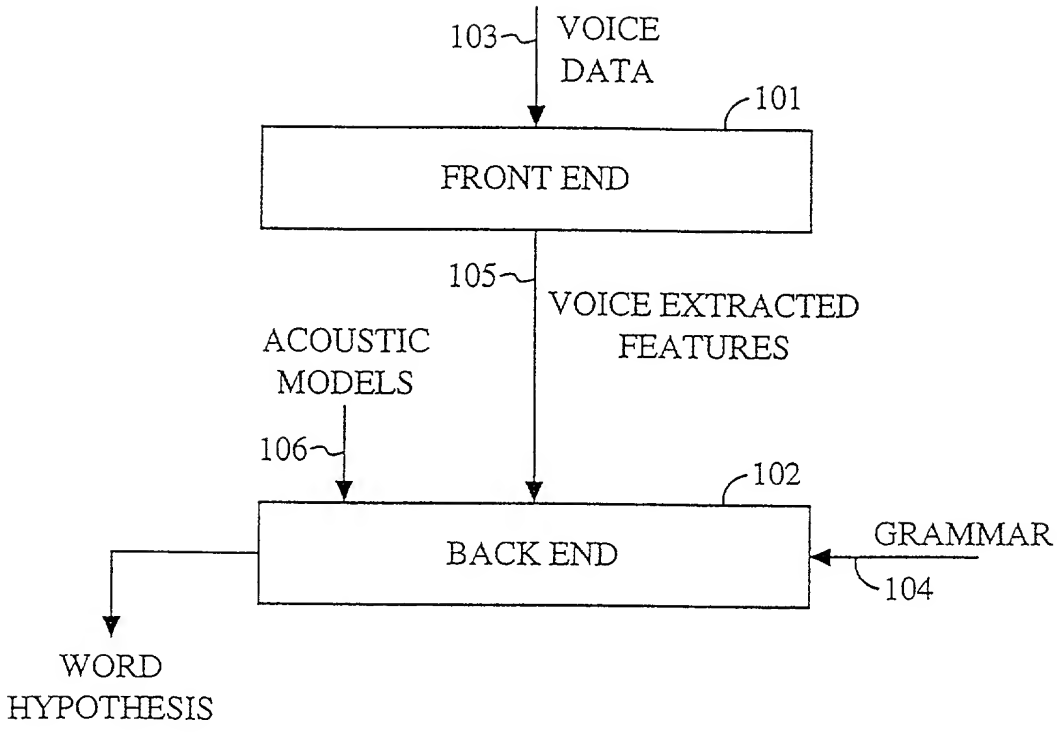

Near End Speech
n(t)
e(t)
Echo
8KHz
ADC
s(n)
d(n)
e1(n)
Voice Encoder
Adaptive Filter
Unknown
Acoustic Echo
Channel
f(t)
Far End Speech
8KHz
DAC
f(n)
Voice Decoder
120
121
122
123
124
125
126
127
128

Figure 1



VOICE RECOGNITION SECTIONS

FIG. 2

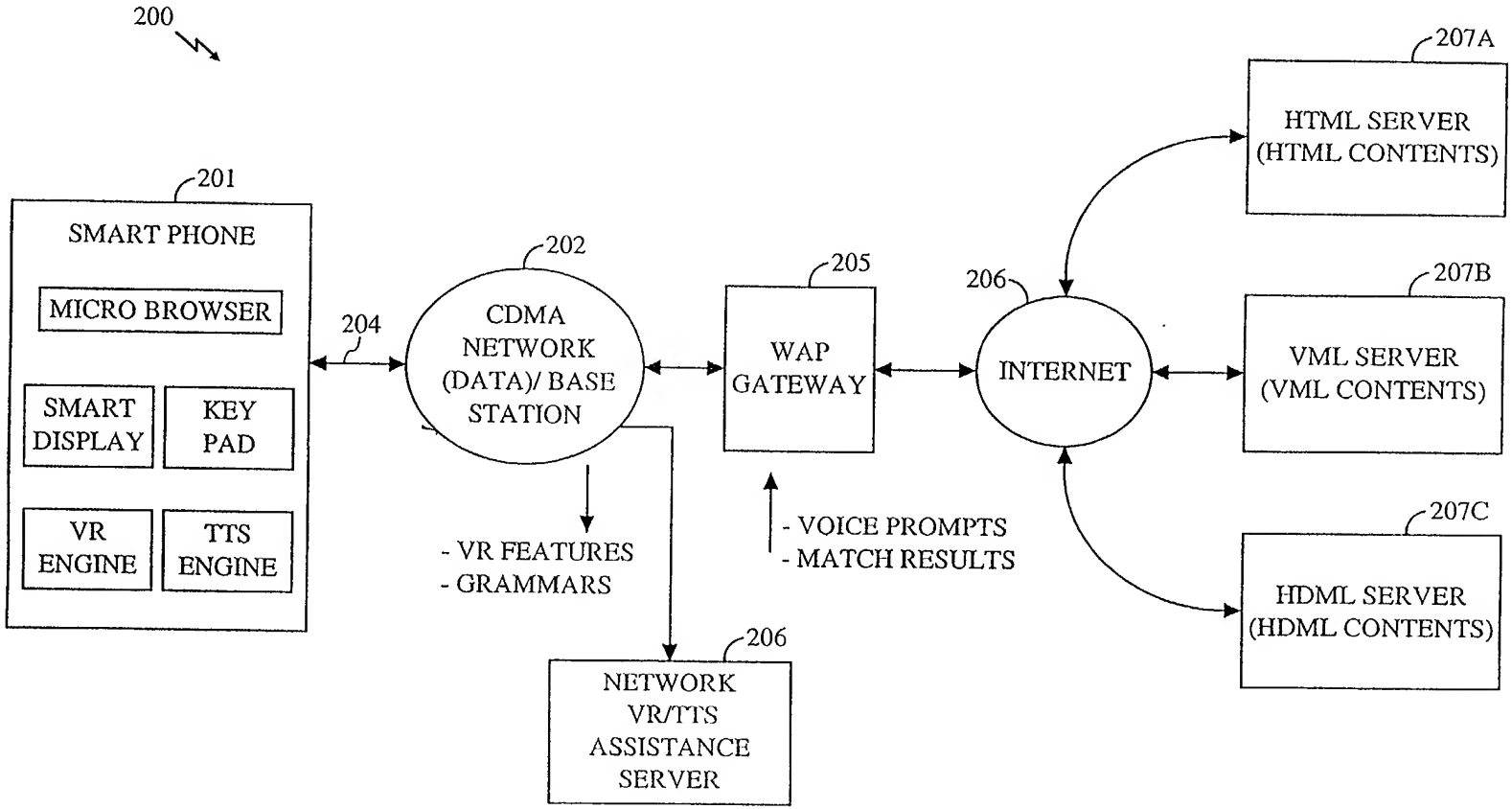
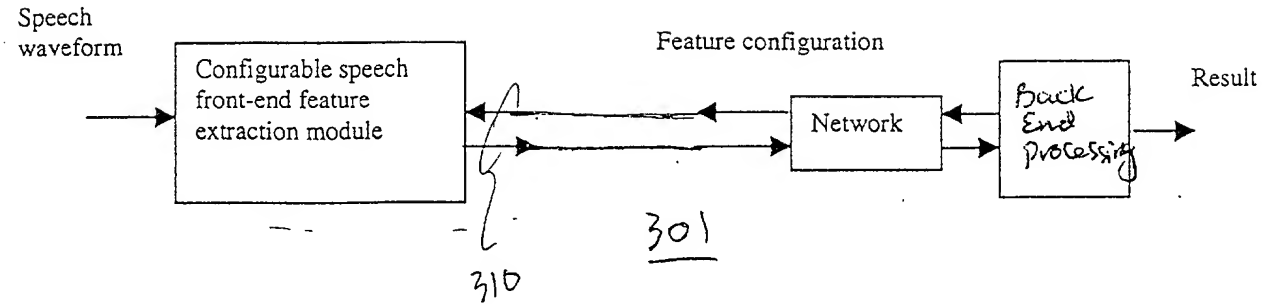
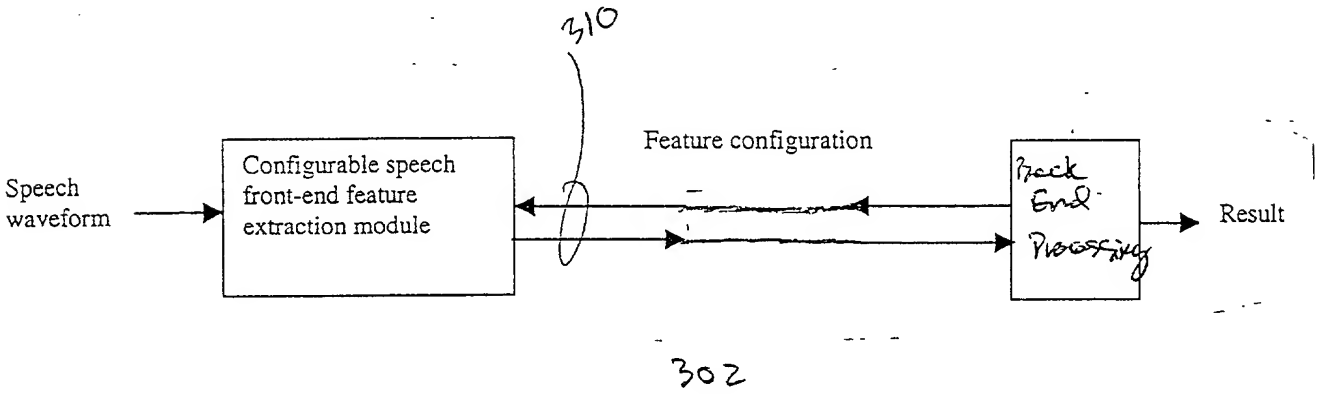

200
201
SMART PHONE
MICRO BROWSER
SMART DISPLAY
KEY PAD
VR ENGINE
TTS ENGINE
204
202
CDMA NETWORK (DATA)/ BASE STATION
205
WAP GATEWAY
206
INTERNET
207A
HTML SERVER (HTML CONTENTS)
207B
VML SERVER (VML CONTENTS)
207C
HDML SERVER (HDML CONTENTS)
- VR FEATURES
- GRAMMARS
- VOICE PROMPTS
- MATCH RESULTS
206
NETWORK VR/TTS ASSISTANCE SERVER

FIG. 3


Speech waveform
Configurable speech front-end feature extraction module
Feature configuration
Network
Back End Processing
Result
310
301


310
Speech waveform
Configurable speech front-end feature extraction module
Feature configuration
Back End Processing
Result
302

-300-

Fig. 4

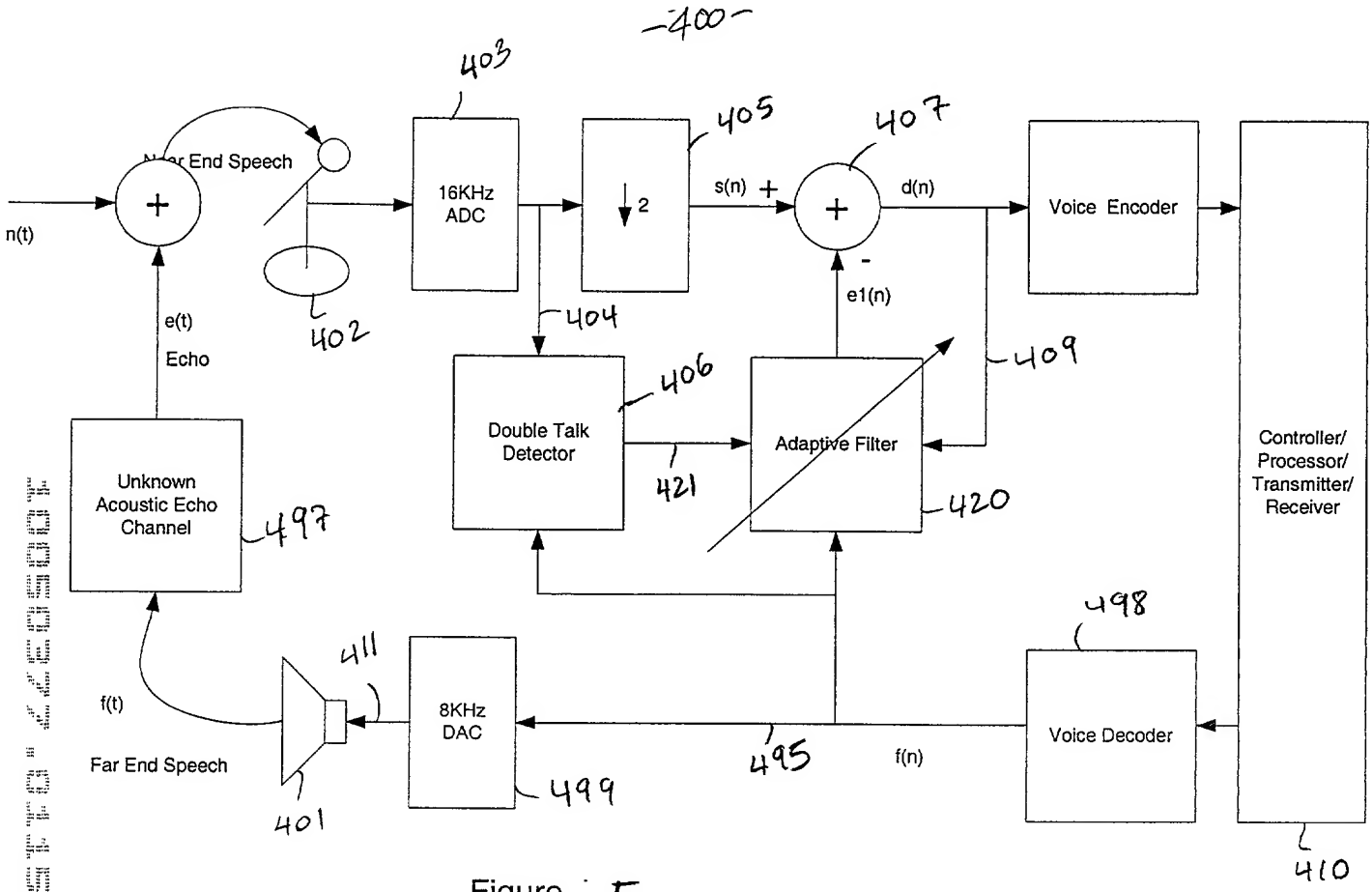


Figure 5

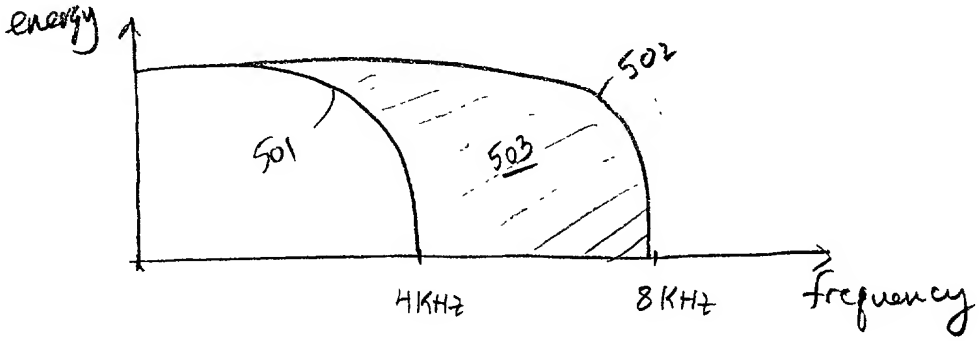


Fig. 6